

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/718,728	11/24/2003	Kenji Nishi	991185B	1835	
38834	7590 10/20/2004		EXAM	EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			NGUYEN	NGUYEN, HUNG	
SUITE 700	ECTICUT AVENUE, NW		ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC 20036		2851		
			DATE MAILED: 10/20/2004	DATE MAILED: 10/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		10/718,728	NISHI ET AL.			
		Examiner	Art Unit			
		Hung Henry V Nguyen	2851			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with the c	correspondence address			
THE - Exte after - If the - If NO - Failu Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replect of the provision of the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 23 A	uaust 2004.				
2a)□	This action is FINAL . 2b) ☐ This action is non-final.					
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)□ 7)□	Claim(s) 23-44 is/are pending in the application 4a) Of the above claim(s) 32-41 is/are withdraw Claim(s) 23-31 and 42-44 is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>24 November 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a) \boxtimes accepted or b) \square object drawing(s) be held in abeyance. See tion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority ι	under 35 U.S.C. § 119					
a)(Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No. <u>09/420,000</u> . ed in this National Stage			
Attachmen	• •	A) 🗖 Indonésia 0	(DTO 442)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) 🛛 Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 11/24/03.		atent Application (PTO-152)			

Application/Control Number: 10/718,728

Art Unit: 2851

Ex Parte Quayle

Page 2

1. This application is in condition for allowance except for the following formal matters:

a. IN THE ABSTRACT

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because it exceeds 150 words in length and it should be amended to reflect the invention as being claimed. Correction is required.

b. IN THE CLAIMS

2. This application is in condition for allowance except for the presence of claims 32 to 41 non-elected without traverse. A complete reply to this office action must include a cancellation of claims 32-41.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Application/Control Number: 10/718,728 Page 3

Art Unit: 2851

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: Claims 23-31 and 42-44 have been found to be allowable since while the prior art of record teaches an exposure apparatus where a reflected light sensor is provided to detect light reflected from a photosensitive substrate and returning through a projection optical system and a reticle, and the intensity of light which has passed the reticle is detected on the substrate side of the projection optical system so that the amount of variation in imaging characteristic of the system is determined. But the prior art of record, either alone or in combination, neither discloses nor makes obvious the combination of projection exposure apparatus and a corresponding method, having a first detector disposed in a vision field of the projection optical system outside an image projection region where an image of the pattern of the reticle is projected, along with a second detector, a variation detector and an exposure controller, with particular functions and connections of these elements, for providing the substrate with a desired exposure amount, as recited in the instant claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art Made of Record

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Application/Control Number: 10/718,728 Page 4

Art Unit: 2851

Kurosawa et al (U.S.Pat. 5,914,9773) discloses an exposure apparatus wherein the intensity of

light pulse and the time moment of emission of light pulse are controlled during continuous

emission of pulse light source.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung Henry V Nguyen whose telephone number is 571-272-

2124. The examiner can normally be reached on Monday-Friday (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hung Henry V Nguyen

Primary Examiner

Art Unit 2851

hvn 10/16/04